

# SEQUENCE LISTING

<110> Vale, Wylie Walker Jr.  
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<120> Urocortin Proteins and Uses Thereof

<130> D6334

<141> 2001-08-04

<150> US 60/273,969

<151> 2001-03-07

<160> 13

<210> 1

<211> 399

<212> DNA

<213> *Homo sapiens*

<220>

<221> CDS

<222> 7..345

<223> DNA Sequence encoding human  
 Urocortin-related peptide (hURP)

<400> 1

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cagagtccctg gttgtcccag tgacccttat cccaaccttc cagctccgcc 100
ctcagaattc tccccagacc actccccgac ctgcggcctc agagagcccc 150
tcagctgctc ccacatggcc gtgggctgcc cagagccact gcagccccac 200
ccgccaccct ggctcgcgca ttgtcctatc gctggatgtc cccatcggcc 250
tcttgcatgat cttactggag caagcccggg ccagggctgc cagggagcag 300
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gccaccacca acgcccgcac cctggcccgt gtcggccact gctgagcctg 350  
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<210> 2

<211> 112

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Urocortin-related peptide (hURP)  
precursor peptide

<400> 2

Met	Thr	Arg	Cys	Ala	Leu	Leu	Leu	Leu	Met	Val	Leu	Met	Leu	Gly	5	10	15
Arg	Val	Leu	Val	Val	Pro	Val	Thr	Pro	Ile	Pro	Thr	Phe	Gln	Leu	20	25	30
Arg	Pro	Gln	Asn	Ser	Pro	Gln	Thr	Thr	Pro	Arg	Pro	Ala	Ala	Ser	35	40	45
Glu	Ser	Pro	Ser	Ala	Ala	Pro	Thr	Trp	Pro	Trp	Ala	Ala	Gln	Ser	50	55	60
His	Cys	Ser	Pro	Thr	Arg	His	Pro	Gly	Ser	Arg	Ile	Val	Leu	Ser	65	70	75
Leu	Asp	Val	Pro	Ile	Gly	Leu	Leu	Gln	Ile	Leu	Leu	Glu	Gln	Ala	80	85	90
Arg	Ala	Arg	Ala	Ala	Arg	Glu	Gln	Ala	Thr	Thr	Asn	Ala	Arg	Ile	95	100	105
Leu	Ala	Arg	Val	Gly	His	Cys									110		

<210> 3

<211> 41

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Urocortin-related peptide (hURP)

<400> 3

Ile Val Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Gln Ile Leu  
5 10 15  
Leu Glu Gln Ala Arg Ala Arg Ala Ala Arg Glu Gln Ala Thr Thr  
20 25 30  
Asn Ala Arg Ile Leu Ala Arg Val Gly His Cys  
35 40

<210> 4

<211> 38

<212> PRT

<213> *Homo sapiens*

<220>

<223> Amino acids 1-38 of human  
Urocortin-related peptide (hURP)

<400> 4

Ile Val Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Gln Ile Leu  
5 10 15  
Leu Glu Gln Ala Arg Ala Arg Ala Ala Arg Glu Gln Ala Thr Thr  
20 25 30  
Asn Ala Arg Ile Leu Ala Arg Val  
35

<210> 5

<211> 40

<212> PRT

<213> *Homo sapiens*

<220>

<223> Human Urocortin (hUcn)

<400> 5

Asp Asn Pro Ser Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg

5 10 15  
 Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala  
 20 25 30  
 Glu Gln Asn Arg Ile Ile Phe Asp Ser Val  
 35 40

<210> 6  
 <211> 41  
 <212> PRT  
 <213> *Homo sapiens*

<220>  
 <223> Human Corticotropin Releasing Factor

<400> 6  
 Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu  
 5 10 15  
 Arg Glu Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln  
 20 25 30  
 Ala His Ser Asn Arg Lys Leu Met Glu Ile Ile  
 35 40

<210> 7  
 <211> 41  
 <212> PRT  
 <213> *Cyprinus carpio*

<220>  
 <223> Carp Urotensin (cUro)

<400> 7  
 Asn Asp Asp Pro Pro Ile Ser Ile Asp Leu Thr Phe His Leu Leu  
 5 10 15  
 Arg Asn Met Ile Glu Met Ala Arg Asn Glu Asn Gln Arg Glu Gln  
 20 25 30  
 Ala Gly Leu Asn Arg Lys Tyr Leu Asp Glu Val  
 35 40

<210> 8  
 <211> 40  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Frog Sauvagine (fSvg)

<400> 8  
 Glu Gly Pro Pro Ile Ser Ile Asp Leu Ser Leu Glu Leu Leu Arg  
                     5                    10                    15  
 Lys Met Ile Glu Ile Glu Lys Gln Glu Lys Glu Lys Gln Gln Ala  
                     20                    25                    30  
 Ala Asn Asn Arg Leu Leu Leu Asp Thr Ile  
                     35                    40

<210> 9  
 <211> 41  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Dogfish Corticotropin Releasing Factor/Urotensin  
          (dCRF/Uro)

<400> 9  
 Pro Ala Glu Thr Pro Asn Ser Leu Asp Leu Thr Phe His Leu Leu  
                     5                    10                    15  
 Arg Glu Met Ile Glu Ile Ala Lys His Glu Asn Gln Gln Met Gln  
                     20                    25                    30  
 Ala Asp Ser Asn Arg Arg Ile Met Asp Thr Ile  
                     35                    40

<210> 10  
 <211> 112  
 <212> PRT

<213> *Mus musculus*

<220>

<223> Mouse Urocortin II precursor peptide

<400> 10

Met	Thr	Arg	Trp	Ala	Leu	Val	Val	Phe	Val	Val	Leu	Met	Leu	Asp	
				5					10					15	
Arg	Ile	Leu	Phe	Val	Pro	Gly	Thr	Pro	Ile	Pro	Thr	Phe	Gln	Leu	
				20					25					30	
Leu	Pro	Gln	Asn	Ser	Leu	Glu	Thr	Thr	Pro	Ser	Ser	Val	Thr	Ser	
				35					40					45	
Glu	Ser	Ser	Ser	Gly	Thr	Thr	Thr	Gly	Pro	Ser	Ala	Ser	Trp	Ser	
				50					55					60	
Asn	Ser	Lys	Ala	Ser	Pro	Tyr	Leu	Asp	Thr	Arg	Val	Ile	Leu	Ser	
				65					70					75	
Leu	Asp	Val	Pro	Ile	Gly	Leu	Leu	Arg	Ile	Leu	Leu	Glu	Gln	Ala	
				80					85					90	
Arg	Tyr	Lys	Ala	Ala	Arg	Asn	Gln	Ala	Ala	Thr	Asn	Ala	Gln	Ile	
				95					100					105	
Leu	Ala	His	Val	Gly	Arg	Arg									
				110											

<210> 11

<211> 38

<212> PRT

<213> *Mus musculus*

<220>

<223> Mouse Urocortin II

<400> 11

Val	Ile	Leu	Ser	Leu	Asp	Val	Pro	Ile	Gly	Leu	Leu	Arg	Ile	Leu	
				5					10					15	
Leu	Glu	Gln	Ala	Arg	Tyr	Lys	Ala	Ala	Arg	Asn	Gln	Ala	Ala	Thr	
				20					25					30	

Asn Ala Gln Ile Leu Ala His Val  
35

<210> 12

<211> 38

<212> PRT

<213> *Takifugu rubripes*

<220>

<223> Pufferfish Urocortin Related Peptide

<400> 12

Leu Thr Leu Ser Leu Asp Val Pro Thr Asn Ile Met Asn Val Leu  
5 10 15

Phe Asp Val Ala Lys Ala Lys Asn Leu Arg Ala Lys Ala Ala Glu  
20 25 30

Asn Ala Arg Leu Leu Ala His Ile  
35

<210> 13

<211> 40

<212> PRT

<213> *Rattus norvegicus*

<220>

<223> Rat Urocortin

<400> 13

Asp Asp Pro Pro Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg  
5 10 15

Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala  
20 25 30

Glu Gln Asn Arg Ile Ile Phe Asp Ser Val  
35 40